Production of Indigenous ASWAC sy&em at Bangalore

*234. SHRI KRISHNA KUMAR BIRLA:
SHRI KAPIL VERMA:

WU1 the Minister of DEFENCE be pleased to state:

(a) whether it is a fact that the indigenous programme to develop an Aerospace Surveillance Warning and Control System (ASWACS) has been dropped by Government; and

(b) if so, what are the reasons therefor and tow the decision is going to affect the Indian Air Force?

THE MINISTER OF DEFENCE (SHRI K. C. PANT): (a) No, Sir.

(b) Does not arise.

Use of Radio Therapy

*235. SHRI BHAGATRAM MANHAR: SHRI BIR BHADRA PRATAP SINGH:

Will the PRIME MINISTER be pleased to state:

(a) whether it is a fact that the Atomic Energy Commission has embarked upon a number of projects for the use of Isotopes in medicines and agriculture and if so, the details thereof;

(b) what is the extent of use of radio therapy in medicine in India and what are tiie names of the medical colleges/hospitals licencsed so far and likely *to* be licensed in the next few years o use radio therapy;

(c) whether there is any proposal under Government's consideration to encourage production of radio therapy equipment in India and what incentive can 'he Aromi: Energy Commission g?ve in this respect; and

(d) what are the plans for the production of Cobalt sources for use in radio therapy, including the research conducted in this respect so far?

THE MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECH NOLOGY AND THE MINISTER OF STATE IN THE DEPARTMENTS OF OCEAN DEVELOPMENT, ATOMIC EN ERGY ELECTRONICS AND SPACE (SHRI K. R. NARAYANAN): (a) Yes Sir. The Department of Atomic Energy has an extensive programme on the use of radio isotopes in medicine, industry and agriculture. In addition tc the existing radiation medicine centre in Bombay, one is being set up in Calcutta. Radio isotopes are also being used in areas like genetic improvement of crop plants, in increasing efficiency of nitrogenous and phosphatic fertilizers for diff-i erent crop soil regimes, monitoring availability of rnicromitrients for crops and their movement in the soil profiles and study for the fate of pefticides applied to crops.

(b) About 130 cobalt-60 teletherapy units are currently in use for treatment of cancer. In the next two to three yean, about 10 to 15 new unhg are expected to be licensed every year. In addition 60 brachytherapy units in the country provide intracavity and interstitial treatment for cancers.

(c) and (d) Yes, Sir. The Department of Atomic Energy can provide technical assistance to intending manufacturers in design specifications, radiation safety etc. and will also supply cobalt-60 sources required for this purpose. These sources are also being supplied by Bhabha Atomic Research Centre to various Hospitals since 1968 and .its production is being increased to meet future needs.

Progress achieved in different sectors under the 20-Point programme

*236. DR. MOHD. HASHTM KIDWAT: Will the MIniste- of PROGRAMME TM PLEMENTATION be pleased to state:

(a) the details of the progress achieved in different sectors under the 20-Po!nt Programme during,the last financial year, as compared to the targets fixed, State-wise;

(b) whether the achievement of the las! financial year were satisfactory;

(c) if not, what remedial measures Government propose to take in this regard; and

(d) what are the targets fixed for the year?

THE MINISTER OF PLANNING AND THE MINISTER OF PROGRAM ME IMPLEMENTATION (SHRl MADHAVSINH SOLANKI): (a) A set of statements giving State-wise targets and achievements under 29 Points/Items of the TPP-1986, covered under the Monthly Pro gress Reports, during the last year 1987-88, is attached as annexure *[See* Appen dix CXLVII. Annexure No. 82].

' (b) Yes, Sir. Out of 29 Items, Progress under 24 was "Very Good' (90 per cent and above of the targets), 'Good' (between 80 and 90 per cent) under 3 items and 'Poor' (be)ow 80 per cent) only under 2 Items.

(c) Does not arise.

(d) A statement showing the targets fixed for the various; items of the 20-Point Programme,- covered under the Monthly Progress Report, for the current financial Year is attached as annexure. *[See* Appendix CXLVil, Annexuie No. 83].

Development of products and processes bcsir

*237. DR. YELAMANCHILI SIVAJI: Will the PRIME MINISTER be pleased to state:

(a) the number of products and proces ses developed by the C.S.I.R. which have been handed over to industry for com mercial exploitation during the last three years;

(b) what measures are being taken to persuade Indian industries to try new processes developed by the C.S.I.R.; and

(c) what steps are taken to develop rap port between the C.S.I.R. and the Indian industries?

THE MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TEC HNOLOGY AND THE MINISTER OF STATE IN THE DEPARTMENTS OF OCEAN DEVELOPMENT, ATOMIC ENERGY, ELECTRONICS AND SPACE (SHRI K. R. NARAYANAN): (a) The know-how for products/processes developed by CSIR and licensed to industry for commercial exploitation, during the past three years is as follows:

Year	New knowhow developed	Totsl knowhow licensed	Total Licence agreements signed
1985-86 .	28	145	270
1986-87	37	147	240
1987-88 .	21	118	240

(b) CSIR has stepped up its efforts to establish linkages with industry and to further the commercialisation of its processes by involving potential users in R&D project selection, monitoring and funding.

(c) CSIR has increased its interaction and contacts with professional bodies and associations of industry and commerce.

Manufacture of VCRs and VCPs

*238. SHRI KAMAL MORARKA: Will the PRIME MINISTER be pleased to state:

(a) whether any letters of intent have been issued for manufacture of VCRs and VCPs;